

**SYSTEMS AND METHODS OF DETECTING AND CORRECTING  
REDEYE IN AN IMAGE SUITABLE FOR EMBEDDED  
APPLICATIONS**

**ABSTRACT**

5           Systems and methods of detecting and correcting redevye in an image are  
described. In one aspect, the input image is sub-sampled to generate a thumbnail  
image, redevye pixel areas are detected in the thumbnail image. In another aspect,  
an input image having lines of pixels with original color values is processed. One  
or more redevye pixel areas corresponding to respective areas in the input image  
10 are detected. Each pixel in the input image corresponding to the detected redevye  
pixel areas is classified as a redevye pixel or a non-redevye pixel on a line-by-line  
basis without reference to pixels in adjacent lines. The original color values of  
pixels in the input image classified as redevye pixels are corrected.